

CATALYST OF OLEFIN LOW POLYMERIZATION REACTION AND LOW POLYMERIZATION OF OLEFIN USING THE SAME

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Abstract of JP8325318

PURPOSE: To obtain the subject catalyst comprising a chromium compound, a pyrrole-containing compound, an alkyl metal compound and a specific Lewis acid, capable of carrying out low polymerization reaction in extremely high activity.

CONSTITUTION: This catalyst for low polymerization for an olefin comprises (A) a chromium compound, (B) a pyrrole-containing compound, (C) an alkyl metal compound and (D) a Lewis acid of the formula $M(Ar)_1$ ($1 \leq 1 \leq 4$; M is an element of the group IIB, IIIB or IV B of the periodic table; Ar is an aryl) such as tris(pentafluorophenyl)boron. Preferably the component A is a compound of the formula $CrAmBn$ (m is 1-6; n is 0-4; A is a 1-20C alkyl, alkoxy, carboxyl, & beta-diketonate, etc.; B is a nitrogen-containing compound, a phosphorus-containing compound, an arsine-containing compound, etc.), the component C is a compound of the formula $M'R_pX_q$ (p is $0 < p \leq 3$; q is $0 \leq q < 3$ and $p+q \leq 3$; M' is lithium, magnesium, zinc, etc.; R is a 1-10C alkyl; X is H, an alkoxy, aryl, etc.). The catalyst contains preferably (E) a halide.

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